Gulf Region Division

U.S. Army Corps of Engineers

Delivering on Progress

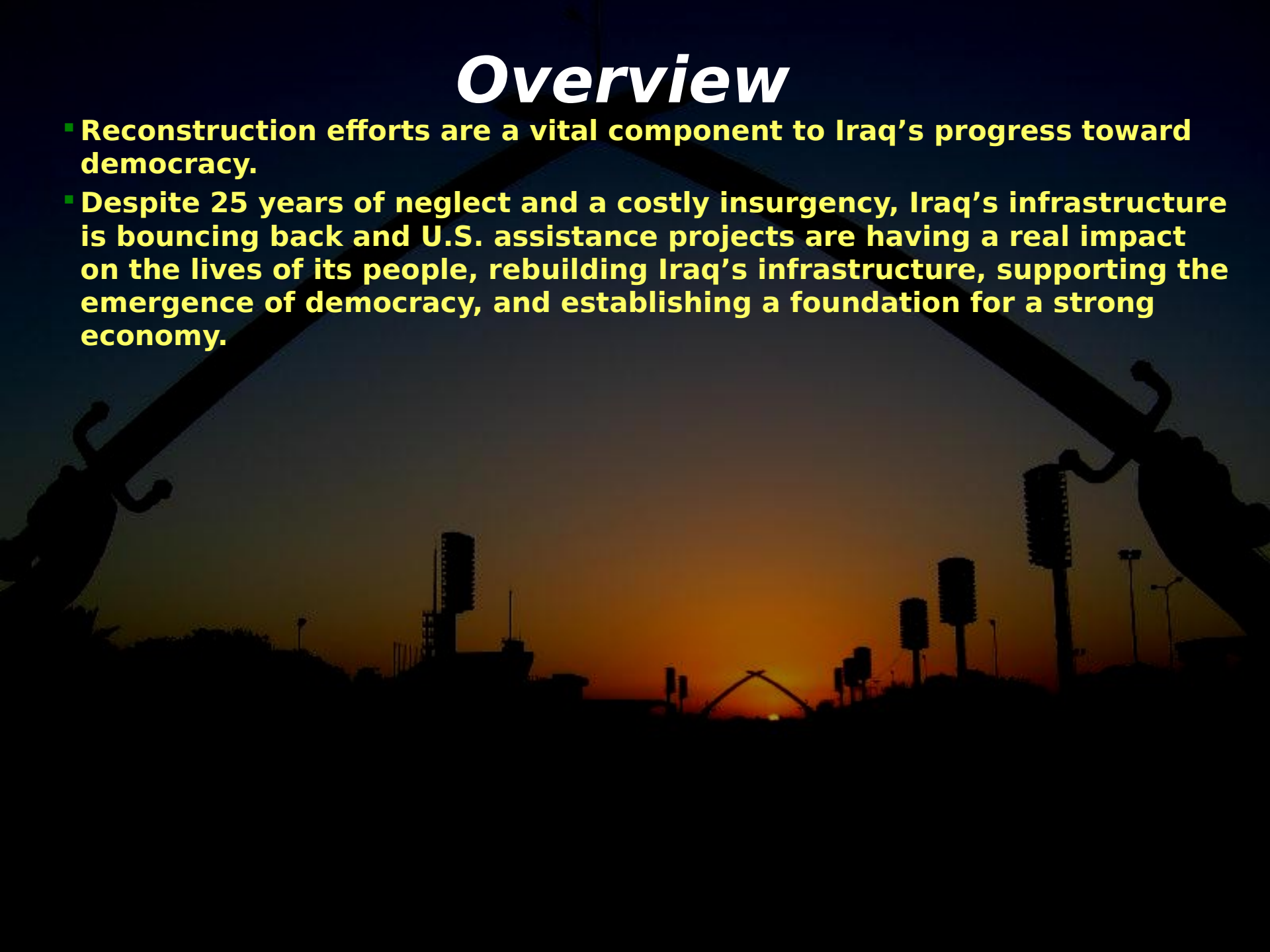
March 2, 2007

www.grd.usace.army.mil

REBUILDING IRAQ

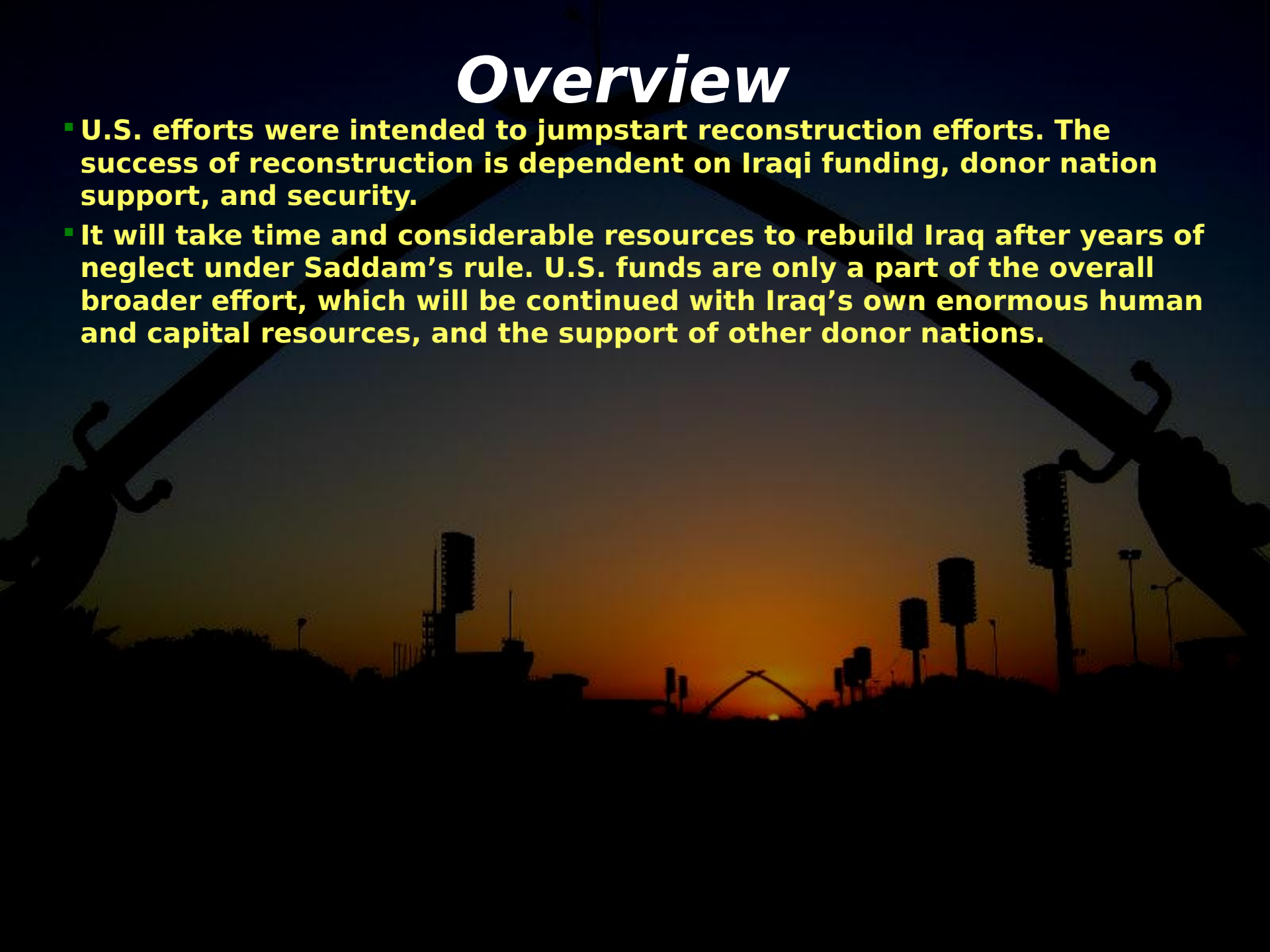
Overview

- Reconstruction efforts are a vital component to Iraq's progress toward democracy.
- Despite 25 years of neglect and a costly insurgency, Iraq's infrastructure is bouncing back and U.S. assistance projects are having a real impact on the lives of its people, rebuilding Iraq's infrastructure, supporting the emergence of democracy, and establishing a foundation for a strong economy.



Overview

- U.S. efforts were intended to jumpstart reconstruction efforts. The success of reconstruction is dependent on Iraqi funding, donor nation support, and security.
- It will take time and considerable resources to rebuild Iraq after years of neglect under Saddam’s rule. U.S. funds are only a part of the overall broader effort, which will be continued with Iraq’s own enormous human and capital resources, and the support of other donor nations.



Overview

- Statistics below reflect GRD portion of projects funded under Iraq Relief and Reconstruction Fund (IRRF), Developmental Fund of Iraq (DFI), Commander's Emergency Response Fund (CERP), Economic Support Fund (ESF), and Iraq security Forces Fund (ISFF). At transfer of sovereignty in June 2004, there were just 200 projects started.

As of 24 Feb 2007, USACE/GRD has:

- **4,135 planned projects - construction cost of $7.58 B; program cost of $8.84 B**
- **3,128 completed projects – construction cost of $4.15 B; program cost of $4.39B.**
- **765 ongoing projects – construction cost of $2.95 B; program cost of $3.28 B.**
- **142 projects awarded, but not yet started.**
- (Note: Data compiled by contractor Stanley Baker Hill from the Iraq Reconstruction Management System (IRMS) database of construction projects in Iraq. Data is being pulled from the GRD Benchmark. Data subject to change as more project information is entered. This does not include non-construction investments such as equipment purchases, training and some security)

Zanko
Substation

Transformer Placement

Electric
Industries

Taji Perimeter Lighting

Baiji Power Plant

Khor Az Zubair Power Plant

KOBELCO
KOBELCO

Erbil Water Treatment Plant

Sadr City Sewer Cleaning

Sweet Water Canal

TO -10 Pump Maintenance

Adhaim Dam

Capacity Development

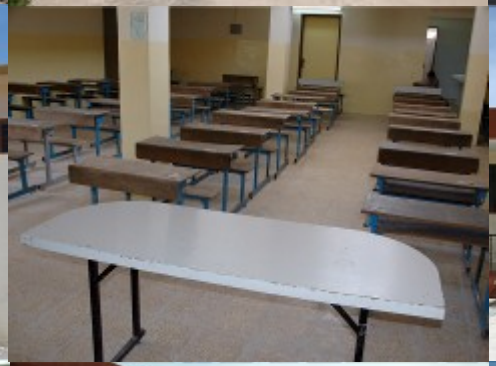
BIAP

Advanced First Responder Network

Baghdad Train Station

Baghdad International

Baghdad Train

مەکتەبی


ژیاریاندنی

Before

After

School Programs

Before

After

Al Fathah River Crossing

Stator Blades in Compressor

Flare Tips

Gas/Oil Separation

Basrah Port

Hospital
Program

Northern Border

الله أكبر

الائتلاف العراقي الموحد
الائتلاف العراقي

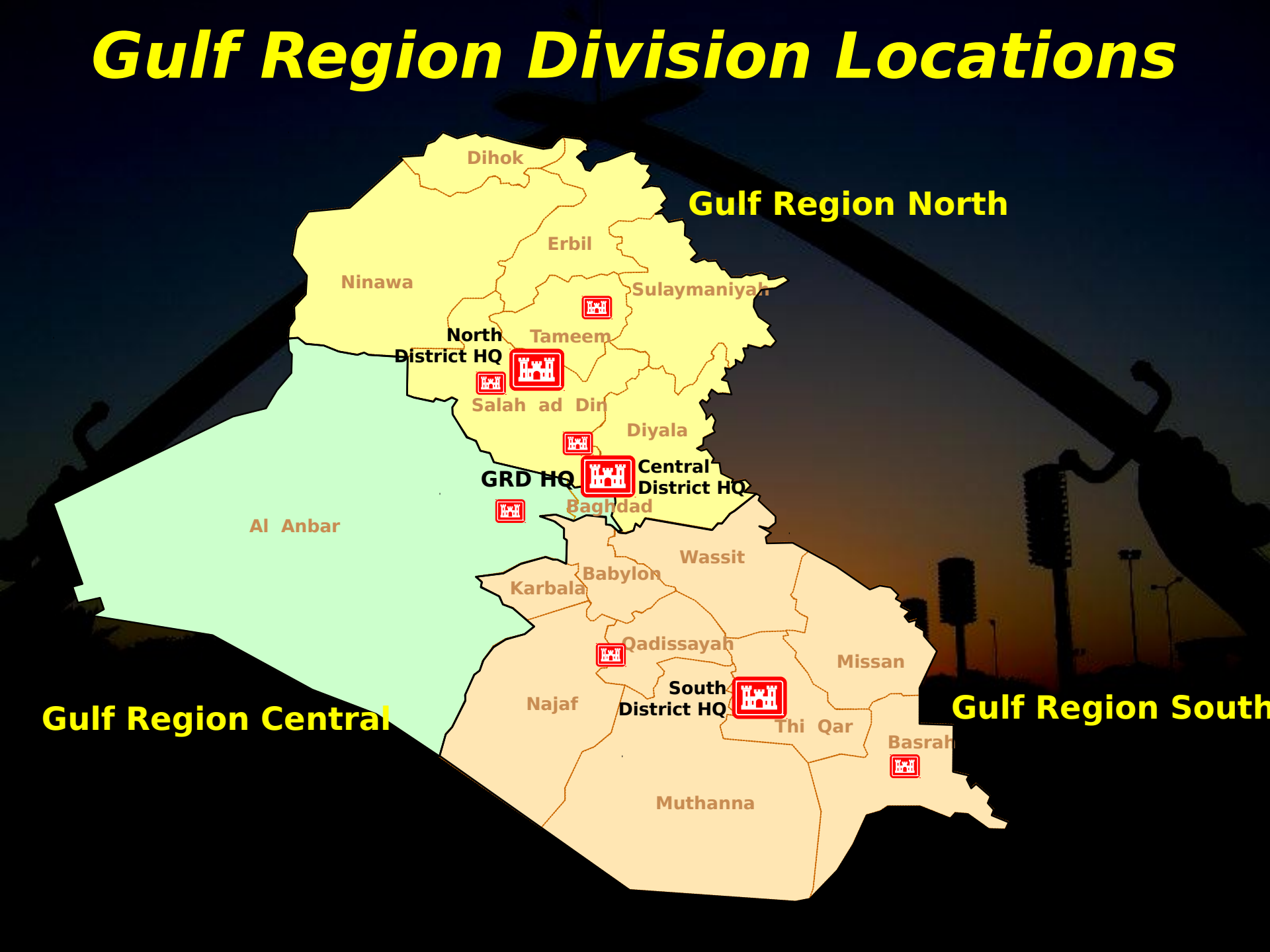
إنتخ

الشعب الكردي شعب مسالم
يمقت الإرهاب و يرفض العنف

وين ما كنت... قلبي بوطني
مستقبل العراق
له صوت: صوتك!
برنامج تصويت العراقيين خارج القطر العراقي

IRAQ
Reconstructi
on
KADHIMIYAH
THAWRA
7 NISSAN
MANSOUR
KARADAH
RASHEED

Gulf Region Division Locations

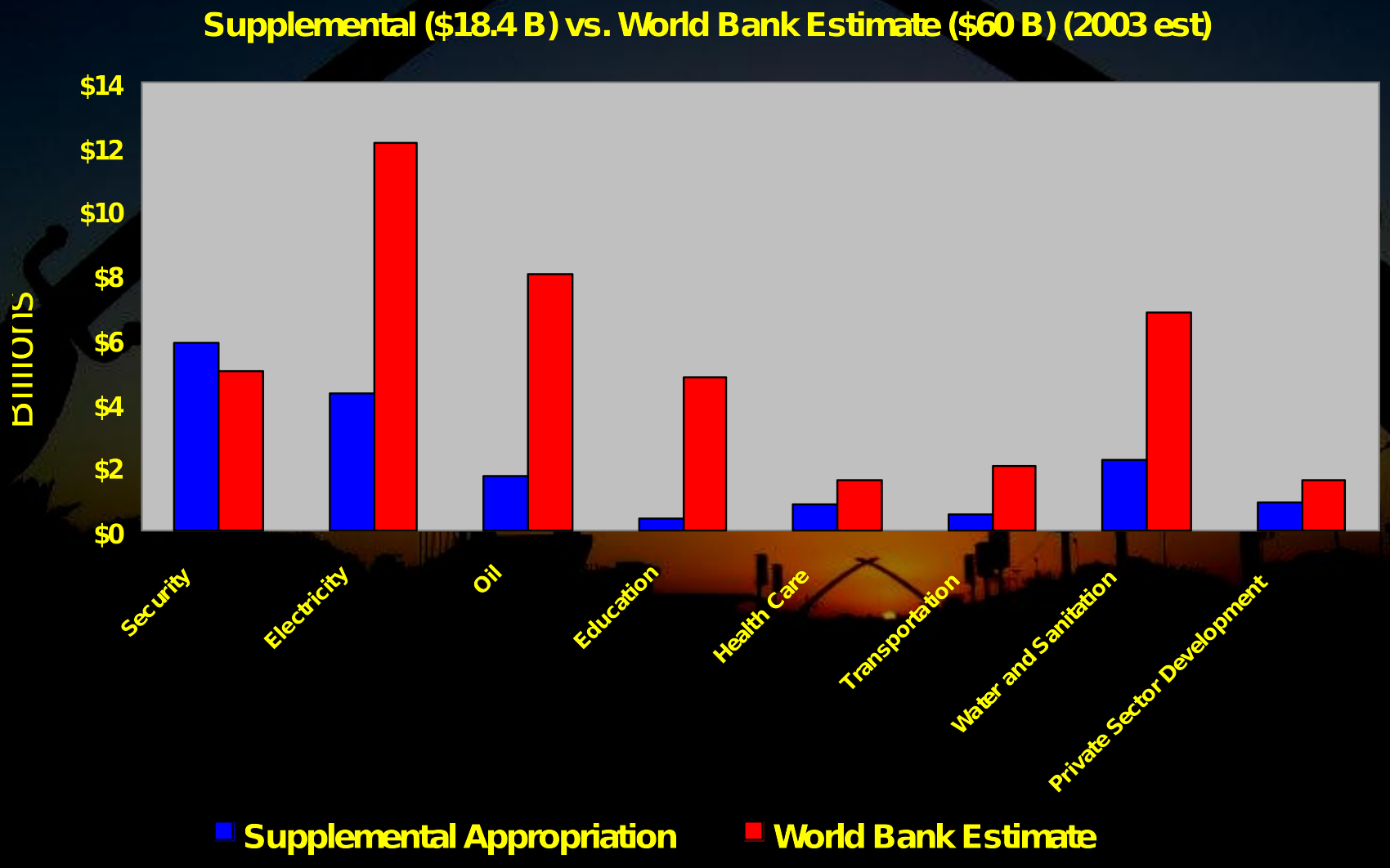


Mission Statement

The Gulf Region Division (GRD)

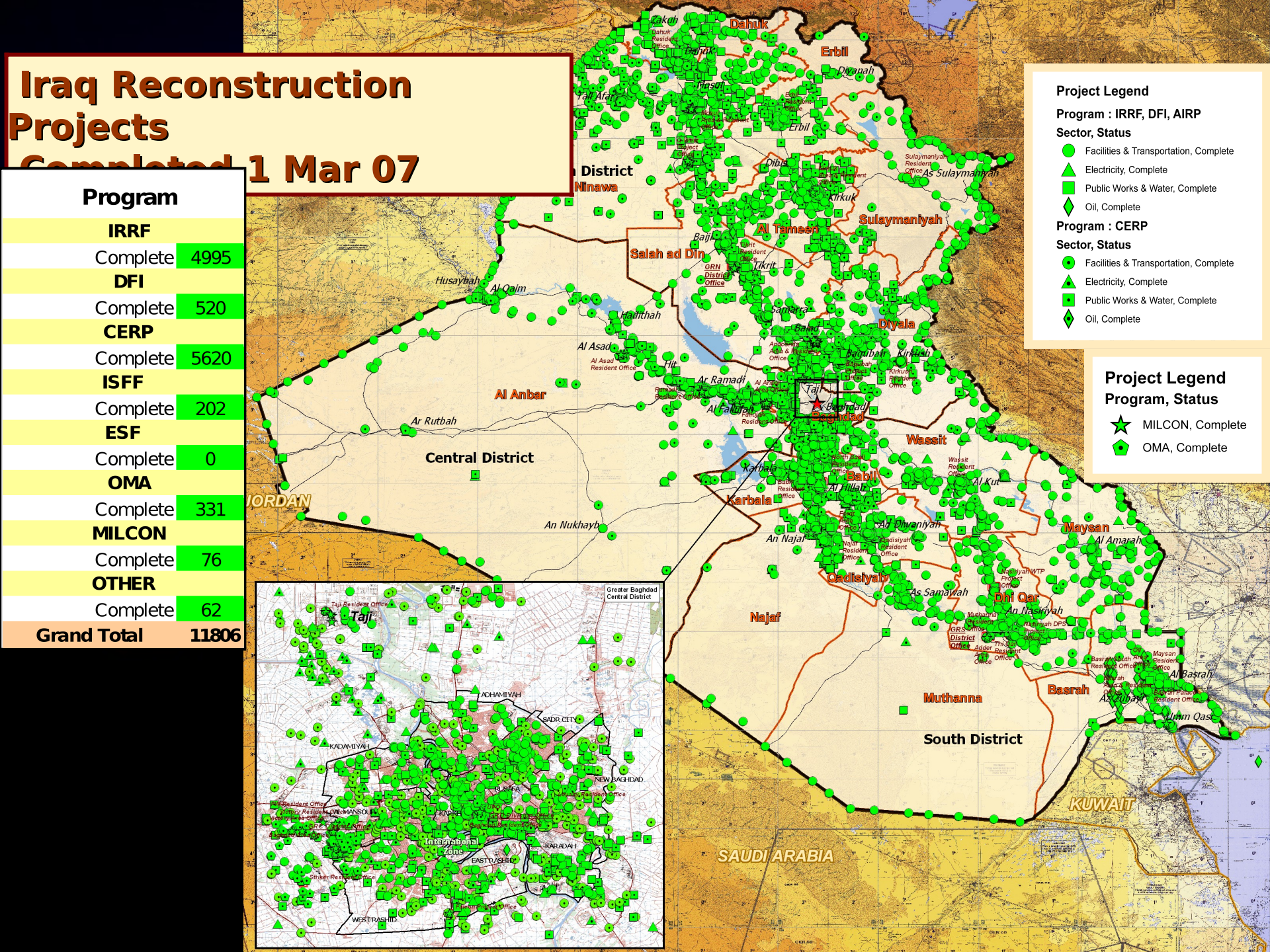
provides quality, sustainable, responsive, full spectrum engineering and logistical services in support of civil/military construction in Iraqi. Committed to assisting the Iraq Government to assume full responsibility for national

Cost to Rebuild Iraq to 1990-leve



Iraq Reconstruction Projects
Completed 1 Mar 07

Program	
IRRF	
Complete	4995
DFI	
Complete	520
CERP	
Complete	5620
ISFF	
Complete	202
ESF	
Complete	0
OMA	
Complete	331
MILCON	
Complete	76
OTHER	
Complete	62
Grand Total	**11806**



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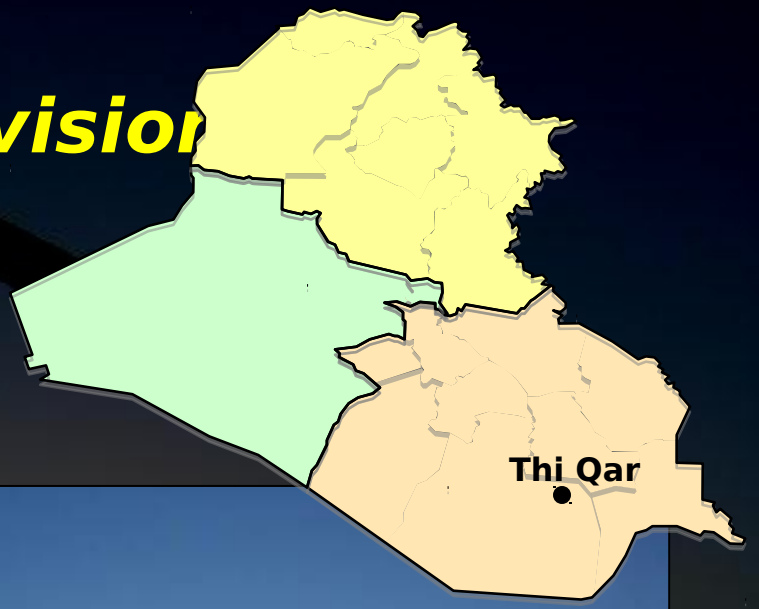

Tallil Military Medical Clinic

Construction will soon be complete on a $1.6 million

project to construct a Military Medical Clinic in the

Tallil District, Thi-Qar Governorate

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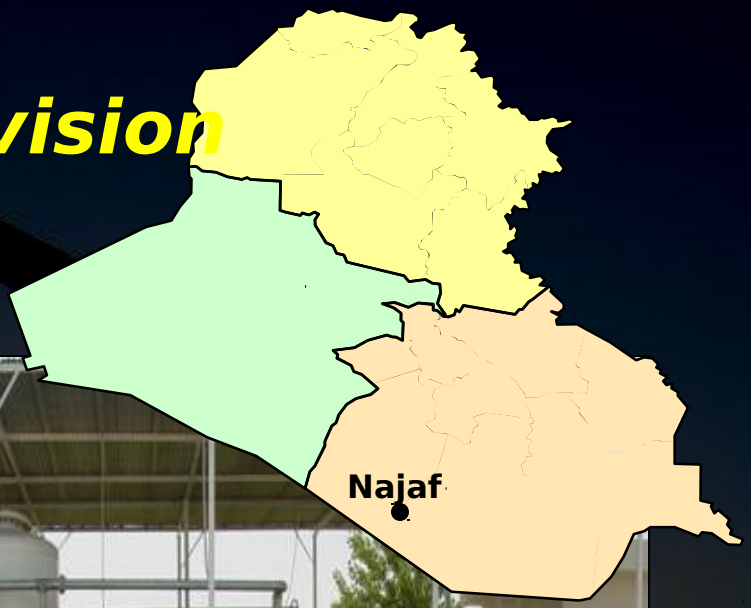

Al-Muash Water Treatment Unit

Construction completed a $236,000 Najaf Water Treatment project.

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Al Wassit Police Station

Construction is complete on a $225,000 Police Station

project in the Kut District, Wassit Governorate.

Al Mutawwi'ah Border Post

Construction is complete on a $274,600 Bo

Post project in the Al Khaseeb District, Bas

Governorate.

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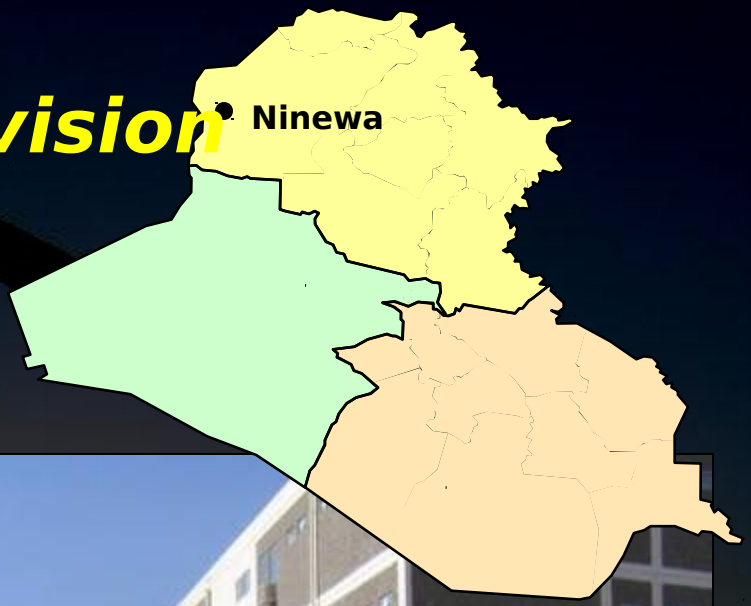

Al-Kasik Military Base

Construction will soon be complete on the $123.6 million Al-Kasik Military Base in Ninewa

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Baiji Electrical Power Plant

Construction is complete on a $67.4 million project to replace two gas turbines at the Baiji Power Plant, Salah Al-Din Governorate.

This project added 270 megawatts of

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Wadi Al Morr Railway Station

Construction is complete on a $72,300 Railway Station

project in the Mosul District, Ninewa Governorate.

Diyala Village Road

Construction is complete on a $99,600 Village Road project in the Je Zane District, Diyala Governorate.

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Sinjar Fire Station

Construction is complete on a $178,500 Sinjar Fire

Station in the Ninewa Governorate.

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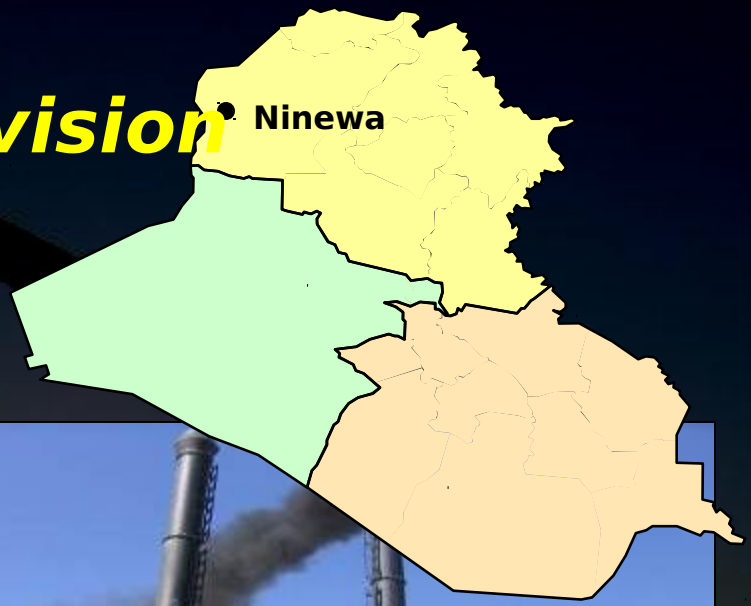


Qayarra Asphalt Refinery

Construction is complete on a $408,000 Qayarra Asphalt Refinery in the Ninewa Governorate.

Reconstruction Under Adversity

Baiji Power Plant, a Success Story

- Threats, intimidation, and loss of life
  - Senior project manager abducted
  - Security team member killed
  - Courage, determination
- Project completion

What Does It Cost To Work In This Type Of Environment?

- Cost plus award fee contract
- Initial estimate - $30 million
- Definitized - $59 million
- Security team attacked; security costs $9.5 million
- 165-day project takes 270 days.
  Final Project cost - $67.5 million

Reconstruction Projects

Large Scale Capital Projects

10% of the Projects – 80% Program Cost

Economic Infrastructure

Burzugan natural gas power plant
Plant cost $80 million

Small Scale Projects (< $0.5M)

90% of the Projects – 20% Program Cost

Community Based

Transition Strategies: The Road to Self Reliance

- Train Iraqi Associates

  GRD Programs Professional Iraqi workforce of +350: project managers, engineers, project controls, database management; training in systems, coaching, project management, and Quality Assurance

- Contracting Outreach

  Public seminars; teaching Iraqi contractors how to bid; networking with women-owne

- Capacity Development

  O&M and Sustainment

- Relationships and Ministry Collaboration

Large vs. Small Projects

STRATCOM Challenge

Erbil Water Treatment Plant

Cost – $201 million

Design Capacity – 6,000 M^3 per Hour

Will service 330,000 people

Contract duration: 25 months

Improve Living Environment In Basrah City (PW 90)

Cost – $941,450

The project included installing 34 km of pipe, fittings and fixtures. This project provides additional potable water delivery capability

Contract duration: 7 months

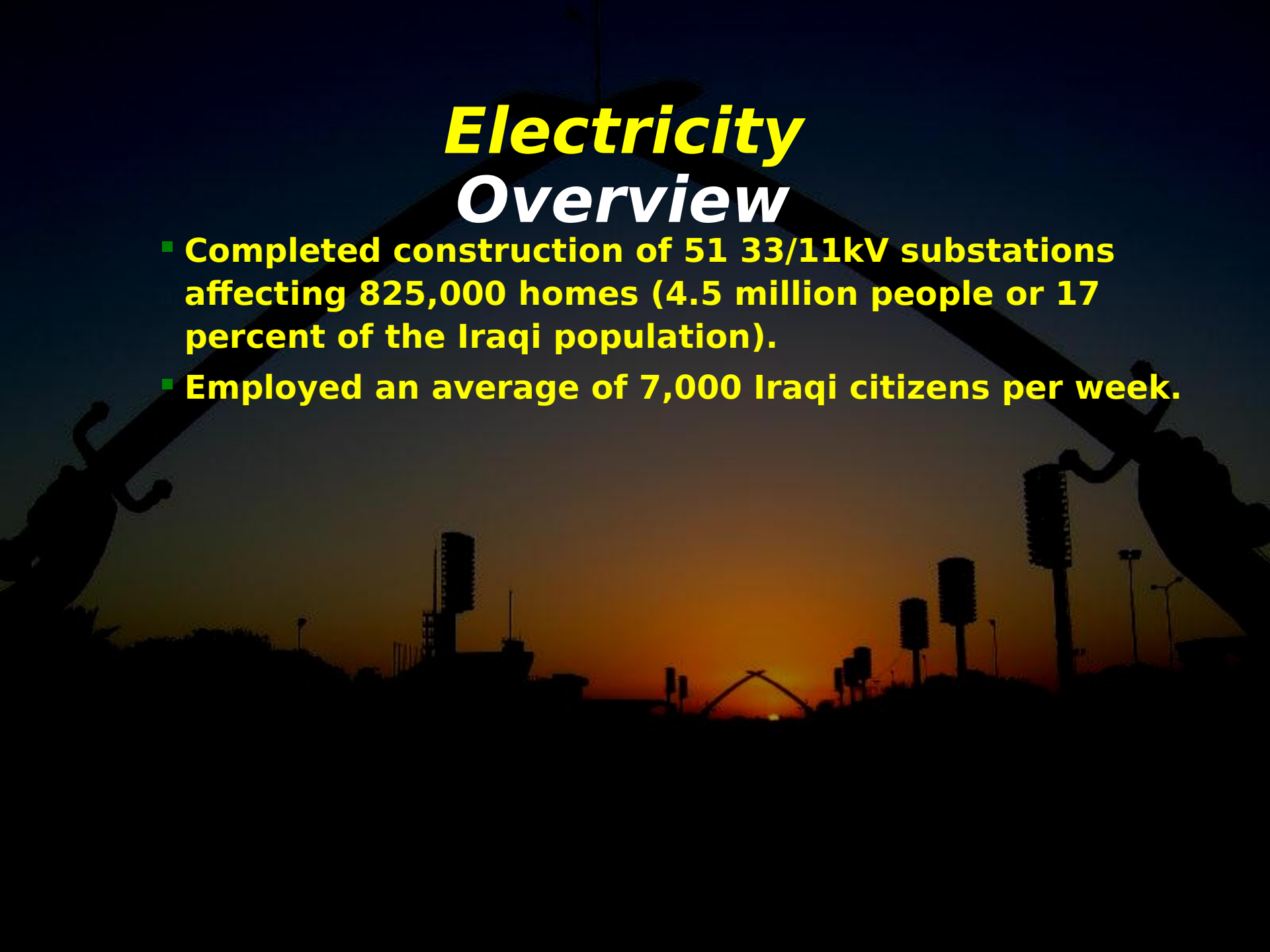
Slow/Less Visible/Long Term ⟷ **STRATCOM** ⟷ **Quick/Visible/Short**

Electricity Overview

- Of 1,879 megawatts planned, 1,420 megawatts have been added and restored increasing the capacity of electrical power to serve 1.3 million households (6.5 million Iraqis or 20 percent of the population).
- 528 planned, 315 projects completed with 164 on-going.
- Strengthened and stabilized the electrical transmission grid through the completion of six 132/400kV substations and six overhead line projects affecting 425,000 households and 2.1 million Iraqi citizens.

Electricity
Overview

- **Completed construction of 51 33/11kV substations affecting 825,000 homes (4.5 million people or 17 percent of the Iraqi population).**
- **Employed an average of 7,000 Iraqi citizens per week.**

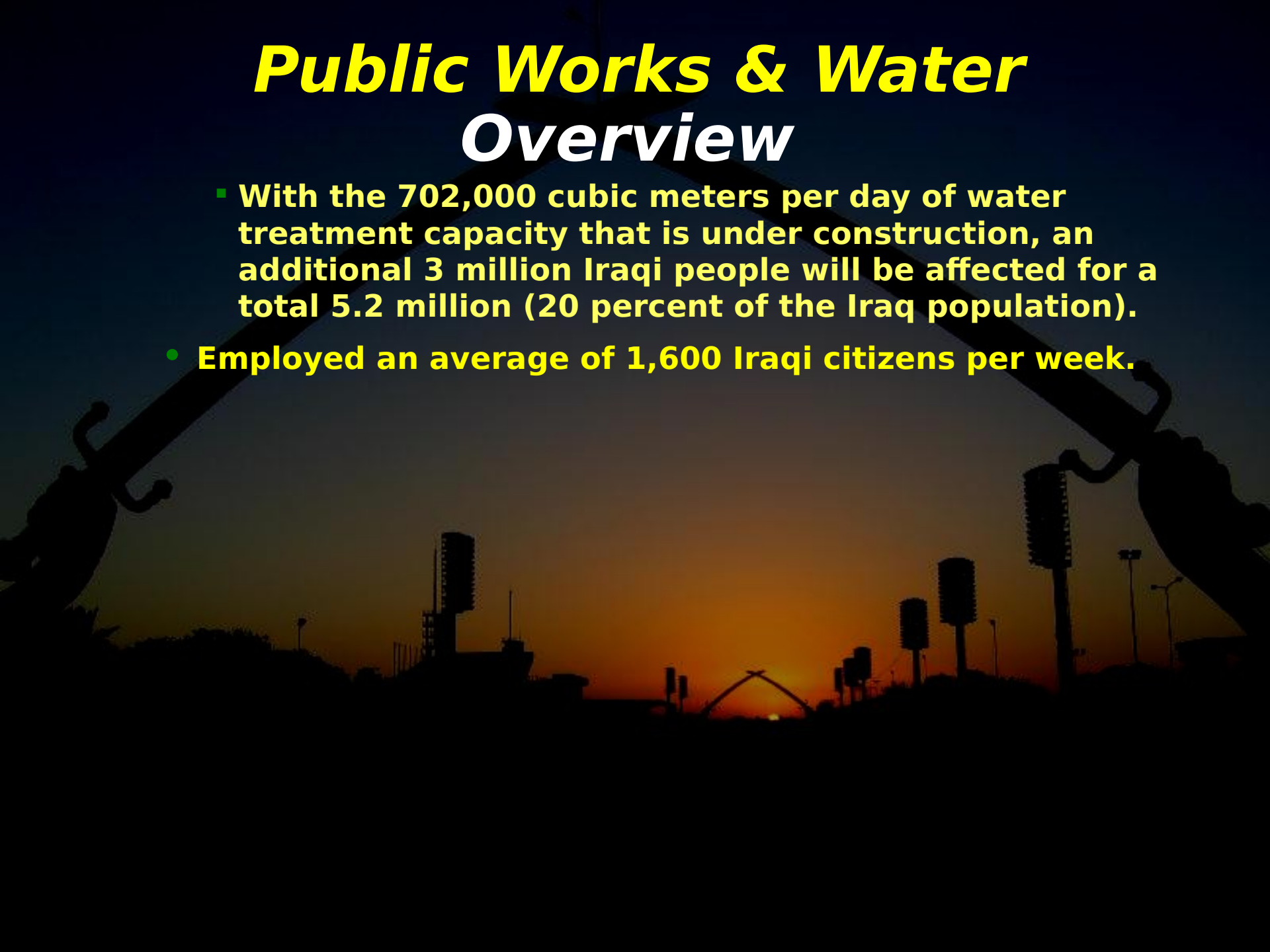


Public Works & Water
Overview

- 823 water projects planned, 530 completed, 240 ongoing.
  - 823 water projects planned, 530 completed, 240 ongoing.
    - Of those, 480 water treatment and sewage projects completed, with 169 on-going.
  - Of the 1.1 million cubic meters per day of potable water planned434,000, cubic meters per day of water treatment capacity have been achieved.
    - Provides potable water capacity to approximately 2.2 million Iraqi people (8 percent of population).

Public Works & Water
Overview

- With the 702,000 cubic meters per day of water treatment capacity that is under construction, an additional 3 million Iraqi people will be affected for a total 5.2 million (20 percent of the Iraq population).
- Employed an average of 1,600 Iraqi citizens per week.



Oil Projects Overview

- 90 oil projects planned, 47 completed, 36 ongoing.
- Of 3 million barrels per day of planned capacity, current oil production capacity is at 2.5 million barrels per day.
- Oil production increased immediately following post war by 1.9 million barrels per day generating added revenue to the Iraqi economy.
- Natural gas production capacity increased post war by 230 million standard cubic feet per day.
- Liquefied petroleum gas production capacity increased post war by 1,700 tons per day.
- Employed approximately 5,000 Iraqi citizens per wk.

Facilities & Transportation Overview

- Completed 261 kilometers of village roads. An additional 166 kilometers of village road projects are on-going.
- 102 railroad renovation projects at 92 railroad stations have been completed, which accounts for 93 percent of total railroad stations.
- 20 of 29 aviation projects are completed, affecting 3 airports, affecting 4,000 passengers per day.
- Completed six port projects increasing port support for 50 ships per day. This accounts for 60 percent of the port capacity in Iraq.
- Employed an average of 2,300 Iraqi citizens per week.

Facilities Overview

- 2,694 facilities projects planned, 2,236 completed, 325 ongoing.

Building, Health, and Education

- 161 Primary Healthcare Centers - 124 Primary Healthcare Centers are under construction with 31 complete and nine impacted by insurgent activities.
- Of the 41 hospital renovation projects planned - 11 are ongoing with 28 completed, at 20 hospitals across the country.
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Building, Health, and Education Overview

- Of the 41 hospital renovation projects planned, 13 are ongoing with 28 completed, at 20 hospitals across the country.
- This increases the capacity to treat about 3.25 million patients annually in hospitals and 630,000 outpatients annually at the PHCs, which is 14 percent of the patient population.
- Renovation or construction of 962 school projects are complete improving quality learning environments for more than 500,000 kindergarten through 8th grade students (9 percent of the total amount of students/schools in Iraq).
- Employed an average of 2,650 Iraqi citizens per week.

Security and Justice Overview

- Completed construction on 152 border forts and 10 Point of Entry facilities (includes MNSTC-I projects).
- Completed renovation on 92 fire stations, which comprises 30 percent of the total number of fire stations or fire-fighting services for Iraq.
- Completed work on 27 courthouses with 13 on-going.
- Constructing/rehabilitating four correctional facilities that will provide 4,090 beds and improving conditions for 1,700 more. This will increase new beds by 43 percent and improve 18 percent of existing bed space
- Employed an average of 3,500 Iraqi citizens per week.

How You Can Help

- **Stay informed: www.grd.usace.army.mil**
- **Continue to Support our Men and Women in Uniform and our DOD Civilians Engaged in the Global War on Terror and Iraqi Reconstruction**

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